

United States Patent [19]

Moore et al.

[11] Patent Number: 4,566,001

[45] Date of Patent: Jan. 21, 1986

[54] **TOUCH STRIP INPUT FOR DISPLAY
TERMINAL**

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[21] Appl. No.: 464,959

[22] Filed: Feb. 8, 1983

[51] Int. Cl.⁴ G09G 1/00; G09G 3/00

[52] U.S. Cl. 340/711; 340/706;
340/709; 340/365 VL; 178/18; 178/19

[58] Field of Search 340/706, 707, 708, 709,
340/710, 711, 365 VL, 365, S, 365 P; 178/18,
19

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,898,643	8/1975	Ettlinger	340/707 X
4,193,119	3/1980	Arase et al.	340/707 X
4,202,041	5/1980	Kaplow et al.	340/712 X
4,204,204	5/1980	Pitstick	340/712
4,238,792	12/1980	Cohen et al.	340/712 X

4,310,839 1/1982 Schwerdt 340/709 X

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[57] **ABSTRACT**

The screen of a display terminal has touch strips extending adjacent horizontal and vertical edges. The touch strips have electrical outputs dependent on the position along the strips at which they are touched. Using microprocessor control the touch strips can be made to manipulate a displayed image and control the rate or level or other terminal functions. By selecting an appropriate programming mode the touch strips can be made to present a series of programmable or soft keys. Also the touch strips can be used to provide a menu selection, scrolling and cursor generation and movement for word processing. The use of two touch strips requires less complex circuitry than a known transparent input overlay for the display screen. Moreover, it is a cleaner technique resulting in reduced image attenuation and distortion.

18 Claims, 3 Drawing Figures

